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## Telemetry Group

# Vehicular Instrumentation: Data Acquisition through Delivery

Ray Faulstich

Naval Air Warfare Center Aircraft  
Division

- Mission Statement:
  - ◆ To investigate and develop standards and procedures in instrumentation technology
- VI/T is responsible for:
  - ◆ IRIG 118, Volume I
  - ◆ IRIG 106: Part I
    - ★ Chapter 5, Digitized Audio Telemetry Standard
    - ★ Chapter 8, MIL-STD-1553 Acquisition Formatting Standard
    - ★ Appendix F, CVSD Modulation
  - ◆ IRIG 106: Part II
    - ★ Chapter 3, Intravehicular Transport
    - ★ Appendix B, Instrumentation Systems Issues (Informative)
    - ★ Appendix C, Intravehiclar Physical Considerations (Informative)



# Membership

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Ray Faulstich, Committee Chair

- Dave Banaszak                      Air Force  
Research Lab
- Jim Barnes                      Dugway Proving  
Ground
- Rob Crist                      Air Armament  
Center (Eglin)
- Sid Jones                      NAWCAD (Pax  
River)
- Sam Marderness                      Aberdeen Test  
Center



# Recently Completed Task

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- TG-61: 20th Transducer Workshop
  - ♦ June 17-19, 2002
  - ♦ Dayton, MD



# Current Tasks

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- TG-59: Instrumentation Engineers Designers Handbook
  - ♦ Compilation / consolidation of theoretical, practical, intuitive information
  - ♦ Systems approach, end-to-end
  - ♦ Detailed chapters in work
  - ♦ Scheduled for completion and publication in 2004
  - ♦ Task Lead: Kip Temple (661-277-1604)

# Current Tasks

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- TG-63: Data Acquisition Network Standards Suite
  - ♦ Establish intravehicular Data Acquisition Network standards
  - ♦ Goal to insure interoperability and direct data compatibility with network infrastructures
  - ♦ Leverages on the work of JDANS
  - ♦ Published in IRIG 106, Part 2



# Current Tasks

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- TG-68: 20th Transducer Workshop
  - ♦ Provide a forum for the education of users
    - ★Tutorials
  - ♦ Facilitate exchange of ideas / experiences
    - ★Technical Papers
  - ♦ June 2004
  - ♦ Patuxent River, MD



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Comments, Ideas, Suggested Tasks,  
etc.

Contact:

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